

element string in two dimensions;

a horizontal scanning circuit as one peripheral circuit to feed data signals to each picture element string in said picture element array; and

a vertical scanning circuit as another peripheral circuit to sequentially select and activate each picture element line in said picture element array,

wherein said horizontal scanning circuit and said vertical scanning circuit comprise poly-crystal thin-film transistors, and

wherein said picture element array, said horizontal scanning circuit and said vertical scanning circuit are formed on a same insulating substrate.

13. (Amended) The optical printer head according to claim 5, wherein the positional deviation of insertion of said print head in a printer in a direction perpendicular to a direction of travelling of an object to which a toner image is transferred from said photosensitive body is detected and further comprising a shift register for shifting data signals in said horizontal scanning circuit to correct the detected positional deviation.

14. (Amended) The optical printer head according to claim 5, wherein the positional deviation of insertion of said print head in a printer in a direction perpendicular to a direction of travelling of an object to which a toner image is transferred from said photosensitive body is detected and further comprising a shift register for shifting data signals in said horizontal scanning circuit to correct the detected positional deviation.

Please add the following new claims 15 - 18.

15. An optical printer head comprising:

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a picture element array comprising picture elements containing light emitting devices arranged in directions of a picture element line and a picture element string in two dimensions;

a horizontal scanning circuit to feed data signals to each picture element string in said picture element array;

a vertical scanning circuit to sequentially select and activate each picture element line in said picture element array, and

means for selectively controlling luminance of said picture elements.

*A3
cont.*

16. An optical printer head as recited in claim 15, wherein said picture element array, said horizontal scanning circuit and said vertical scanning circuit are formed in a same insulating substrate.

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17. An optical printer head as recited in claim 15, wherein a plurality of light emitting devices are provided in each picture element and said means for selectively controlling luminance includes means for energizing a selected plurality of said light-emitting devices.

18. An optical printer head as recited in claim 15, wherein said means for selectively controlling luminance includes means for selectively controlling energization power to said light-emitting devices.

In the Abstract:

Please substitute the Abstract provided on a separate page as an attachment to this response for the Abstract originally provided on page 33 of the application. A marked-up copy of the originally filed Abstract showing current changes is provided in an Appendix to this response.